

Roy Luo

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TECHNICAL SKILLS

Languages: Python, R, SQL, C, Bash

Platforms and Tools: Microsoft PowerBI, SQL Server, Git, Google BigQuery, Jupyter Notebook

Libraries: pandas, NumPy, Matplotlib, Plotly, Selenium, tidyverse, ggplot2

EXPERIENCE

SimCorp Dimension Analyst Intern

Texas A&M University

Markham, ON

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

PROJECTS

League of Legends Jungle Tracker | *Python, pandas, Matplotlib, Plotly, Selenium*

- Developed a Python back-end that takes user input to retrieve and visualize data from a REST API
- Web application that is hosted on Streamlit
- Used Plotly and Matplotlib as data visualization libraries
- Used Selenium to webscrape for additional information to be displayed.

Live Crypto Orderbook Dashboard | *R, SQL Server*

- Developed an R script to take in live websocket data to be cleaned and reformatted before uploading to a SQL Server
- Maintains a near real-time orderbook of any cryptocurrency with current mid-market rate and bid/ask prices
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

EDUCATION

University of Waterloo

Honours Mathematics, Coop

September 2023 – April 2027

McMaster University

Mathematics and Statistics - GPA: 3.96/4.00

September 2022 – August 2023

ADDITIONAL INFORMATION

Certificates: Google Data Analytics

Languages: English, Mandarin, French